FIG. 1

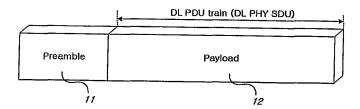


FIG. 2

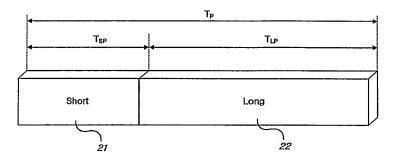


FIG. 3

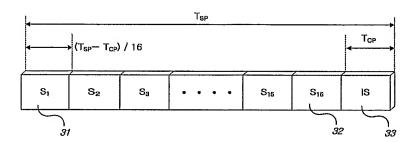


FIG. 4

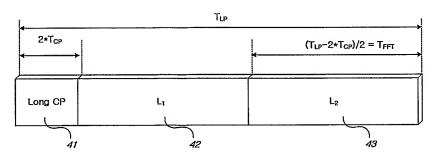


FIG. 5

| parameter | value |
|---|--|
| T _P : PLCP Preamble Period | 6.8μs (= T _{SP} + T _{LP}) |
| T _{CP} : Cycle prefix period | 0.133μs (= T _U /16) |
| T _{SHORT} : Short training sequence period | 2.27µs |
| T LONG: Long training sequence period | 4.53µs |

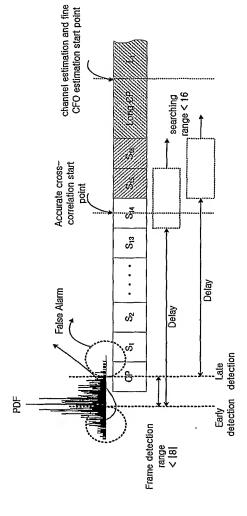


FIG. 6

FIG. 7

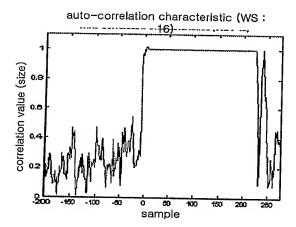


FIG. 8

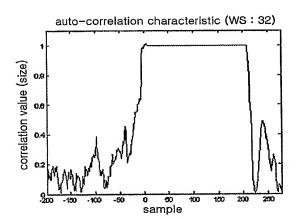


FIG. 9

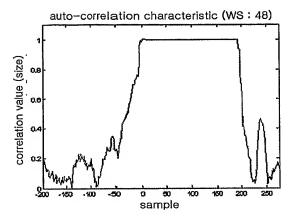
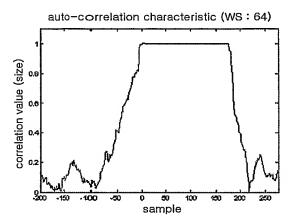
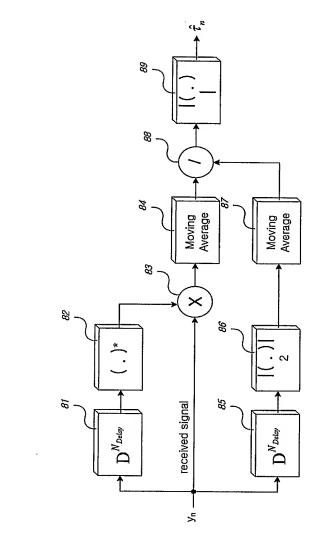


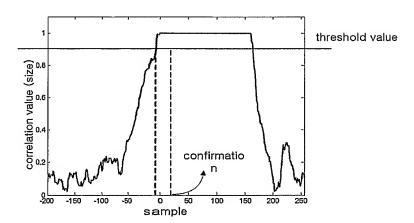
FIG. 10

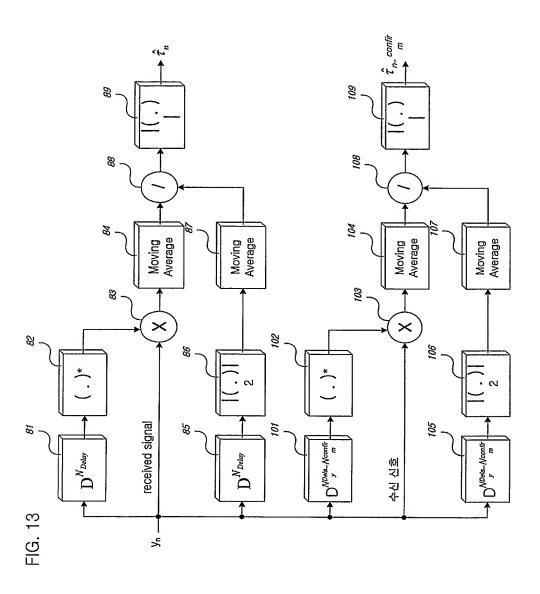




=lG. 1

FIG. 12





13/24

Frame detection

Frame

FIG. 14

FIG. 15

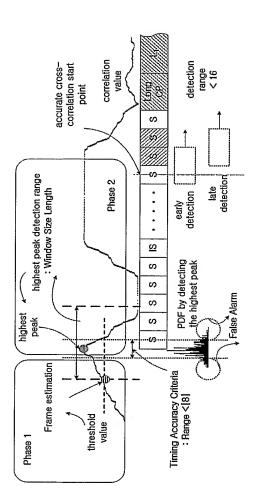


FIG. 16

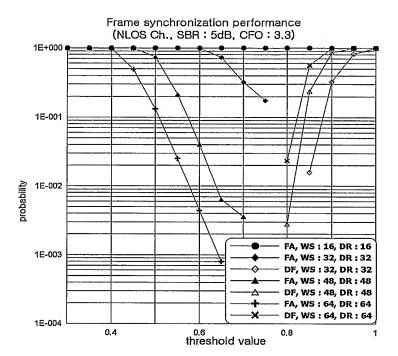


FIG. 17

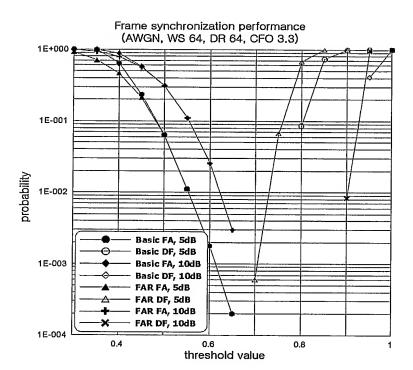


FIG. 18

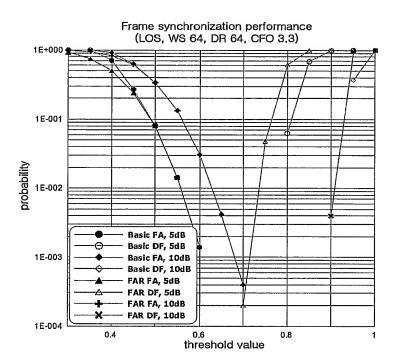


FIG. 19

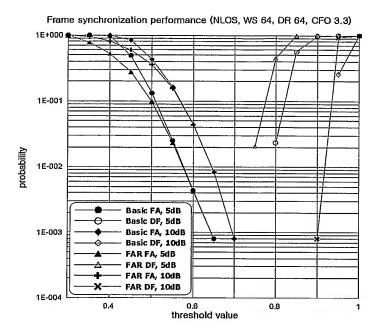


FIG. 20

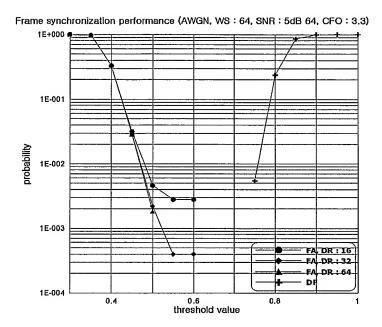


FIG. 21

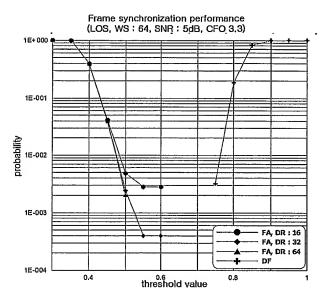


FIG. 22

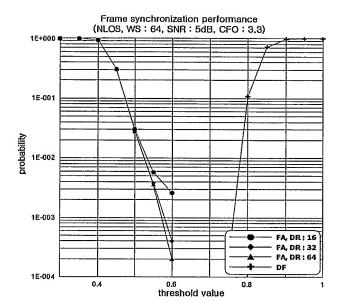


FIG. 23

| | | method 1 | metho | nod 2 (detection range) | | |
|---------|-----------|--------------|-------------|-------------------------|------------|-------------|
| channel | Threshold | HARRIE FAIRE | DF | Threshold | FA | DFINE DFINE |
| AWGN | 0.65 | 2.000*104 | <2.000*104 | | 2.800*10-3 | <2.000*104 |
| LOS | | <2.000*104 | <2.000*104 | 0.60 | 2.800*10-3 | <2.000*104 |
| NLOS | | 8.000*104 | <2.000*10-4 | | 2.600*10-3 | <2.000*104 |

FIG. 24

| channel | A Hidrigan es | method 1 | | metho | d 2 (detection | range) |
|---------|---------------|-------------|-------------|-----------|----------------|------------|
| CHAINE | Threshold: | FA | DE CONTRACT | Threshold | A REAL H | M DE M |
| AWGN | 0.65 | 2.000*104 | <2.000*104 | | 4.000*104 | <2.000*104 |
| LOS | | <2.000*10-4 | <2.000*10- | 0.60 | 4.000*10-4 | <2.000*104 |
| NLOS | | 8.000*10-4 | <2.000*104 | | 4.000*10-4 | <2.000*104 |